

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0003_01_s _ 2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0003_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start		Rating **	A	Issue No.	7	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_MA0003_01_s_2013_7					
Comment Code						
Inspector Comment						
The Sutter Yard has received flood fight training.						

No Photos

LM Start	0.01	Rating **	A	Issue No.	11
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897990 °	38.950968 °
				-121.617822 °	-121.585754 °
DWR ID	DWR_MA0003_01_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Very well maintained vegetation. Fall 2016.					

Photo 1 of 1 : FA_2016_MA0003_195_11_20161007_00026.jpg

View of very well maintained vegetation, landside looking downstream.
Fall 2016.*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	0.01	Rating **	A	Issue No.	12
LM End	5.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897990°	38.950968°
				-121.617822°	-121.585754°
DWR ID	DWR_MA0003_01_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Very well maintained vegetation. Fall 2016.					

Photo 1 of 1 : FA_2016_MA0003_195_12_20161007_00027.jpg



View of very well maintained vegetation, waterside looking downstream. Fall 2016.

LM Start	0.78	Rating **	M	Issue No.	140
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole on the landward toe road approximately 8" in diameter that needs to be repaired. Fall 2016.					

Photo 1 of 2 : FA_2016_MA0003_195_140_20161007_00038.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 8" rodent hole. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	0.78	Rating **	M	Issue No.	140 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			38.903339 °	38.903339 °	
				-121.606209 °	-121.606209 °	
DWR ID	DWR_MA0003_01_f_2014_140					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
There is a rodent hole on the landward toe road approximately 8" in diameter that needs to be repaired. Fall 2016.						

Photo 2 of 2 : FA_2016_MA0003_195_140_20161007_00039.jpg



This is another photo of the rodent hole to show its relationship to to levee toe, toe road, and drainage ditch. Fall 2016.

LM Start	0.80	Rating **	M	Issue No.	21
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903277°	38.903277°
				-121.605864°	-121.605864°
DWR ID	DWR_MA0003_01_f_2016_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair animal hole at landside levee toe. Fall 2016.					

Photo 1 of 2 : FA_2016_MA0003_195_21_20161007_00035.jpg



View of large hole at the landside levee toe. Look to be cause by a larger animal other than squirrels. Fall 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	0.80	Rating **	M	Issue No.	21 (cont)	
LM End	0.80	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.903277 °		38.903277 °
				-121.605864 °		-121.605864 °
DWR ID	DWR_MA0003_01_f_2016_21					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Repair animal hole at landside levee toe. Fall 2016.						

Photo 2 of 2 : FA_2016_MA0003_195_21_20161007_00037.jpg



View from the crown of where this hole is. Fall 2016.

LM Start	1.51	Rating **	C	Issue No.	13
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.904680 °	38.904680 °
				-121.594229 °	-121.594229 °
DWR ID	DWR_MA0003_01_s_2015_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression in the crowns shoulder has been repaired. Fall 2016					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	1.77	Rating **	A/W	Issue No.	14
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.907025 °	38.907025 °
				-121.590375 °	-121.590375 °
DWR ID	DWR_MA0003_01_s _ 2015_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes have been backfilled and no new evidenced of activity. Fall 2016.					

Photo 1 of 1 : FA_2016_MA0003_195_14_20161007_00033.jpg



Rodent holes were backfilled and no longer exist at this location. Fall 2016.

LM Start	2.18	Rating **	M	Issue No.	15
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree is at a turnout and not in the levee, but limbs should be trimmed for access and visibility.					

Photo 1 of 1 : FA_2016_MA0003_195_15_20161007_00030.jpg



View of tree at a turnout that needs to have its limbs trimmed for visibility and access, landside looking downstream. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	N/A : Not Applicable A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	2.18	Rating **	M	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_MA0003_195_18_20161007_00031.jpg



View of rodent holes that need to be backfilled, No evidence of rodents during inspection. Fall 2016.

LM Start	3.20	Rating **	A/W	Issue No.	20
LM End	3.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.925909 °	38.925909 °
				-121.585401 °	-121.585401 °
DWR ID	DWR_MA0003_01_s_2015_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_MA0003_195_20_20161007_00029.jpg



View of the slope that is not consistent it makes the crown narrower were it dips in and out, but no evidence of slope erosion or sloughing. Fall 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	4.15	Rating **	M	Issue No.	1
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.937451°	38.937937°
				-121.588512°	-121.588471°
DWR ID	DWR_MA0003_01_s_2016_1				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]					

Photo 1 of 2 : FA_2016_MA0003_195_1_20160906_00001.jpg



USACE 2013 Photo #1

LM Start	4.15	Rating **	M	Issue No.	1 (cont)
LM End	4.18	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_MA0003_195_1_20160906_00002.jpg



USACE 2013 Photo #2

LM Start	4.71	Rating **	M	Issue No.	2
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion into the bank slope.					
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]					

Photo 1 of 2 : FA_2016_MA0003_195_2_20160906_00003.jpg



USACE 2013 Photo #1

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	10/04/2016 10/04/2016	Sterling York

LM Start	4.71	Rating **	M	Issue No.	2 (cont)	
LM End	4.76	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2015 USACE Erosion Survey, DRAFT			38.945188°	38.945958°	
				-121.586096°	-121.586394°	
DWR ID	DWR_MA0003_01_s_2016_2					
Comment Code						
Inspector Comment						
2013 - Minor toe scour causing gradual erosion into the bank slope.						
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]						

Photo 2 of 2 : FA_2016_MA0003_195_2_20160906_00004.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---